

WHAT IS CLAIMED IS:

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1. A rotary head drum apparatus, comprising:
  - a stator drum;
  - a rotary drum provided with a plurality of magnetic heads and rotating said magnetic heads, said rotary drum being mounted for rotational movement with respect to said stator drum;
  - a rotary transformer including a stator-side rotary transformer provided on said stator drum and a rotating-side rotary transformer fixed to said rotary drum,
  - said stator-side rotary transformer and said rotating-side rotary transformer being adapted to send and receive signals to each other, wherein an adhesive providing gap is disposed between said rotating-side rotary transformer and said rotary drum for receiving an adhesive for bonding said rotating-side rotary transformer to said rotary drum; and
  - an adhesive splashing prevention part provided on said rotating-side rotary transformer and receiving adhesive splashing from said adhesive providing gap,
- 25 said adhesive splashing prevention part including:
  - a first ring member having an opening in a center thereof and bonded to said rotating-side rotary transformer with a thermosetting resin adhesive; and
  - 30 a second ring member bonded to said first ring member with the thermosetting resin adhesive and having in a center thereof an opening whose diameter is smaller than a diameter of the opening of said first ring

member,

wherein said adhesive splashing prevention part forms a space receiving adhesive splashing from said adhesive providing part.

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2. The rotary head drum apparatus as claimed in  
10 claim 1, wherein a flexible printed circuit is connected  
to a bottom surface of the rotary drum,

the flexible printed circuit includes an upper  
ring connected to the rotary drum and a lower ring  
connected to the rotating-side rotary transformer, and  
15 electrically connects the magnetic heads with the  
rotating-side rotary transformer, and

the lower ring is used as the second ring member.

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3. The rotary head drum apparatus as claimed in  
claim 2, wherein the first ring member has a ring-shaped  
groove formed in at least one of a top surface and a  
25 bottom surface thereof, and a thermosetting resin is  
disposed in said groove.

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4. The rotary head drum apparatus as claimed in  
claim 1, wherein the first ring member has a ring-shaped  
groove formed in at least one of a top surface and a

bottom surface thereof, and a thermosetting resin is disposed in said groove.

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5. The rotary head drum apparatus as claimed in claim 1, wherein the adhesive splashing prevention part includes an adhesive splashing prevention member 10 including:

a first part corresponding to the first ring member;

a second part corresponding to the second ring member; and

15 a ring-shaped groove in a bottom surface of said first part,

said first and second parts forming an integral part, and

20 said adhesive splashing prevention member is bonded to the rotating-side rotary transformer with a thermosetting resin adhesive disposed in said ring-shaped groove.

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6. The rotary head drum apparatus as claimed in claim 1, wherein the first ring member is bonded to the rotating-side rotary transformer with the thermosetting resin adhesive with substantially no space in between, and 30 the second ring member is bonded to the first ring member with the thermosetting resin adhesive with substantially no space in between.

5           7. The rotary head drum apparatus as claimed in  
claim 1, wherein the adhesive splashing prevention part is  
formed by the first ring member, the second ring member,  
and the rotating-side rotary transformer that are formed  
as a one-piece part.